

## **RAW SEQUENCE LISTING**

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Application Serial Number: 10/642,272 A  
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PATENT APPLICATION: US/10/642,272A

DATE: 08/29/2005

TIME: 17:51:16

Input Set : A:\10642272.ST25.txt

Output Set: N:\CRF4\08292005\J642272A.raw

3 <110> APPLICANT: Hattori, Fumiyuki  
 4 Sugimura, Keijiro  
 5 Furuya, Mayumi  
 7 <120> TITLE OF INVENTION: Therapeutic Methods and Agents for Diseases Associated with  
 8 Decreased Expression of AOP-1 Gene or AOP-1  
 10 <130> FILE REFERENCE: 58777.000012  
 12 <140> CURRENT APPLICATION NUMBER: 10/642,272A  
 13 <141> CURRENT FILING DATE: 2003-08-18  
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP02/01358  
 16 <151> PRIOR FILING DATE: 2001-02-18  
 18 <150> PRIOR APPLICATION NUMBER: JP 41003/2001  
 19 <151> PRIOR FILING DATE: 2001-02-16  
 21 <160> NUMBER OF SEQ ID NOS: 30  
 23 <170> SOFTWARE: PatentIn version 3.3  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 1542  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Homo sapiens  
 30 <400> SEQUENCE: 1

31	ctgaagatgg cggctgctgt aggacggttg ctccgagcgt cggttgcgg acatgtgagt	60
33	gccattcctt gggcatttc tgccactgca gcccctcaggc ctgctgcatt tggaagaacg	120
35	agottgacaa atttattgtg ttctggttcc agtcaagcaa aattattcag caccagttcc	180
37	tcatgccatg cacctgctgt cacccagcat gcaccctatt ttaagggtac agccgttgtc	240
39	aatggagagt tcaaagacct aagccttgcatt gactttaagg ggaaatattt ggtgttttc	300
41	ttctatcctt tggattcac ctttgtgtgt cctacagaaa ttgttgctt tagtgcacaaa	360
43	gctaacgaat ttacatgtt gaactgtgaa gttgtcgacat ttcgtgttgc ttccacttt	420
45	agccatcttgc cctggataaa tacaccaaga aagaatggtg gtttggcca catgaacatc	480
47	gcactcttgc cagactaac taagcagatt tccccagact acgggtgtgt gtttagaagg	540
49	tctggtcttgc cactaagagg tctcttcata attgacccca atggagtcatt caagcatttg	600
51	agcgtcaacgc atctcccaat gggccgaagc gtggaaagaaa ccctccgctt ggtgaaggcg	660
53	ttccagttatg tagaaacaca tgagaagtc tgcccaagcga actggacacc ggattctcct	720
55	acgatcaagc caagtccaggc tgcttccaaa gagtacttc agaaggtaaa tcagtagatc	780
57	acccatgtgtt atctgcaccc tctcaactga gagaagaacc acagttgaaa cctgttttta	840
59	tcatttcaatgatggattt ttagaaggc aaggaaccaa ttatgtttt attcataatgt	900
61	attactctaa atgtttgtt ttgttaattt tggctaggac cttttaaaca tggtagttg	960
63	ctagtagcagg aatcgtttat tggttaacatc ttgggtggctg gctagcttagt ttctacagaa	1020
65	cataatttgc ctctatagaa ggcttatttctt agatcatgtc tcaatggaaa cactcttctt	1080
67	tcttagcctt acttgaatct tgcctataat aaagtagagc aacacacatt gaaagcttct	1140
69	gatcaacggc cctgaaattt tcatcttgcatt tgcattgttataaactgaa ttttcttta	1200
71	agctaacaaa gatcataattt tcaatgtt gatccgtttaa ctcctgcattt gatgtttat	1260
73	gtgattgaag caaatgtgaa tctgttattt taaaaatgtt gcaaggttgc ttaactgtatc	1320
75	atgcatgtatc cctcatccctt gaaattgtt gatgttttactt ttttattcat	1380
77	tagctaaactt tgcattgttataaactt tatttatttgcatt tataaaggat	1440

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171	caacagcttc	caaagagtac	tttgagaagg	tccatcagta	ggccatccta	tgtctgcaat	840	
173	tacctaaggc	tttcaaggcc	aaaaaaagagc	cccagctgga	atccttccaa	tgccttgaag	900	
175	attatttata	aatggcaaa	acctcattat	gtttgtgtt	ataagtactg	ctccacagggc	960	
177	tttgcatttc	taagacaggt	tcaggctc	taaaggtggc	tagctgc	cataagctgcc	1020	
179	cattacttaggg	acttcttgg	ggctaacc	ttctccccga	gtgc	tttgc	cccat	1080
181	ggatcatgtc	cttagagggt	aagcatttt	tcccttagcc	tgccctgaa	cttgg	tac	1140
183	agtgaagtag	cacatagtgc	cagtactgg	tgaatgaag	tagcacatag	caccaggact	1200	
185	taatggaaagc	ttctgatcaa	ggtcctaaa	tttcccttgc	aatttttgt	aattatgctg	1260	
187	aatttccctt	ttttttttt	taaacagtgt	cttgtgtgt	tctgaggat	tgaagaggt	1320	
189	taatcatgaa	ggactatgtc	taatccataa	gtcattttct	tcaagagctg	gatatataga	1380	
191	at						1382	
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195	<211>	LENGTH:	256					
196	<212>	TYPE:	PRT					
197	<213>	ORGANISM:	Homo sapiens					
199	<400>	SEQUENCE:	4					
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205	Val Ser Ala Ile Pro Trp Gly Ile Ser Ala Thr Ala Ala Leu Arg Pro							
206	20	25	30					
209	Ala Ala Cys Gly Arg Thr Ser Leu Thr Asn Leu Leu Cys Ser Gly Ser							
210	35	40	45					
213	Ser Gln Ala Lys Leu Phe Ser Thr Ser Ser Cys His Ala Pro Ala							
214	50	55	60					
217	Val Thr Gln His Ala Pro Tyr Phe Lys Gly Thr Ala Val Val Asn Gly							
218	65	70	75	80				
221	Glu Phe Lys Asp Leu Ser Leu Asp Asp Phe Lys Gly Lys Tyr Leu Val							
222	85	90	95					
225	Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu Ile							
226	100	105	110					
229	Val Ala Phe Ser Asp Lys Ala Asn Glu Phe His Asp Val Asn Cys Glu							
230	115	120	125					
233	Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp Ile							
234	130	135	140					
237	Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Ala Leu							
238	145	150	155	160				
241	Leu Ser Asp Leu Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu Leu							
242	165	170	175					
245	Glu Gly Ser Gly Leu Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro Asn							
246	180	185	190					
249	Gly Val Ile Lys His Leu Ser Val Asn Asp Leu Pro Val Gly Arg Ser							
250	195	200	205					
253	Val Glu Glu Thr Leu Arg Leu Val Lys Ala Phe Gln Tyr Val Glu Thr							
254	210	215	220					
257	His Gly Glu Val Cys Pro Ala Asn Trp Thr Pro Asp Ser Pro Thr Ile							
258	225	230	235	240				
261	Lys Pro Ser Pro Ala Ala Ser Lys Glu Tyr Phe Gln Lys Val Asn Gln							
262	245	250	255					
265	<210>	SEQ_ID_NO:	5					

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266 <211> LENGTH: 257  
 267 <212> TYPE: PRT  
 268 <213> ORGANISM: Rattus norvegicus  
 270 <400> SEQUENCE: 5  
 272 Met Ala Ala Ala Ala Gly Arg Leu Leu Trp Ser Ser Val Ala Arg Pro  
 273 1 5 10 15  
 276 Ala Ser Thr Ile Phe Arg Ser Ile Ser Ala Ser Thr Val Leu Arg Pro  
 277 20 25 30  
 280 Val Ala Ser Arg Arg Thr Cys Leu Thr Asp Met Leu Trp Ser Ala Cys  
 281 35 40 45  
 284 Pro Gln Ala Lys Phe Ala Phe Ser Thr Ser Ser Phe His Thr Pro  
 285 50 55 60  
 288 Ala Val Thr Gln His Ala Pro His Phe Lys Gly Thr Ala Val Val Asn  
 289 65 70 75 80  
 292 Gly Glu Phe Lys Glu Leu Ser Leu Asp Asp Phe Lys Gly Lys Tyr Leu  
 293 85 90 95  
 296 Val Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu  
 297 100 105 110  
 300 Ile Val Ala Phe Ser Asp Lys Ala Asn Glu Phe His Asp Val Asn Cys  
 301 115 120 125  
 304 Glu Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp  
 305 130 135 140  
 308 Ile Asn Thr Pro Ala Lys Asn Gly Gly Leu Gly His Met Asn Ile Thr  
 309 145 150 155 160  
 312 Leu Leu Ser Asp Leu Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu  
 313 165 170 175  
 316 Leu Glu Ser Ala Gly Ile Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro  
 317 180 185 190  
 320 Asn Gly Val Ile Lys His Leu Ser Val Asn Asp Leu Pro Val Gly Arg  
 321 195 200 205  
 324 Ser Val Glu Glu Pro Leu Arg Leu Val Lys Ala Phe Gln Phe Val Glu  
 325 210 215 220  
 328 Thr His Gly Glu Val Cys Pro Pro Asn Trp Thr Pro Glu Ser Pro Thr  
 329 225 230 235 240  
 332 Ile Lys Pro Ser Pro Thr Ala Ser Lys Glu Tyr Phe Glu Lys Val His  
 333 245 250 255  
 336 Gln  
 340 <210> SEQ ID NO: 6  
 341 <211> LENGTH: 257  
 342 <212> TYPE: PRT  
 343 <213> ORGANISM: Mus sp.  
 345 <400> SEQUENCE: 6  
 347 Met Ala Ala Ala Ala Gly Arg Leu Leu Trp Ser Ser Val Ala Arg His  
 348 1 5 10 15  
 351 Ala Ser Ala Ile Ser Arg Ser Ile Ser Ala Ser Thr Val Leu Arg Pro  
 352 20 25 30  
 355 Val Ala Ser Arg Arg Thr Cys Leu Thr Asp Ile Leu Trp Ser Ala Ser  
 356 35 40 45  
 359 Ala Gln Gly Leu Ser Ala Phe Ser Thr Ser Ser Phe His Thr Pro

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360	50	55	60
363	Ala Val Thr Gln His Ala Pro Tyr Phe Lys Gly Thr Ala Val Val Asn		
364	65	70	75
367	Gly Glu Phe Lys Glu Leu Ser Leu Asp Asp Phe Lys Gly Lys Tyr Leu		80
368	85	90	95
371	Val Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu		
372	100	105	110
375	Ile Val Ala Phe Ser Asp Lys Ala Asn Glu Phe His Asp Val Asn Cys		
376	115	120	125
379	Glu Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp		
380	130	135	140
383	Ile Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Thr		
384	145	150	155
387	Leu Leu Ser Asp Ile Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu		160
388	165	170	175
391	Leu Glu Ser Ala Gly Ile Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro		
392	180	185	190
395	Asn Gly Val Val Lys His Leu Ser Val Asn Asp Leu Pro Val Gly Arg		
396	195	200	205
399	Ser Val Glu Glu Thr Leu Arg Leu Val Lys Ala Phe Gln Phe Val Glu		
400	210	215	220
403	Thr His Gly Glu Val Val Cys Pro Ala Asn Trp Thr Pro Glu Ser Pro Thr		
404	225	230	235
407	Ile Lys Pro Ser Pro Thr Ala Ser Lys Glu Tyr Phe Glu Lys Val His		240
408	245	250	255
411	Gln		
415	<210> SEQ ID NO: 7		
416	<211> LENGTH: 21		
417	<212> TYPE: DNA		
418	<213> ORGANISM: Artificial Sequence		
420	<220> FEATURE:		
421	<223> OTHER INFORMATION: Forward Primer		
423	<400> SEQUENCE: 7		
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427	<210> SEQ ID NO: 8		
428	<211> LENGTH: 18		
429	<212> TYPE: DNA		
430	<213> ORGANISM: Artificial Sequence		
432	<220> FEATURE:		
433	<223> OTHER INFORMATION: Reverse Primer		
435	<400> SEQUENCE: 8		
436	ttcatgtggc ccaaacca		18
439	<210> SEQ ID NO: 9		
440	<211> LENGTH: 28		
441	<212> TYPE: DNA		
442	<213> ORGANISM: Artificial Sequence		
444	<220> FEATURE:		
445	<223> OTHER INFORMATION: Probe		
447	<400> SEQUENCE: 9		

**VERIFICATION SUMMARY**

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